

A very proper trea-

tise, wherein is briefly sett forth
the arte of Limming, which teacheth the order
in drawing & tracing of letters, vinets, flowers, armes
and Imagery, & the maner how to make sundry lises of
grounds to laye silver or golde vpon, and how silver or
golde shalbe layed or limmed vpon the lise, & the waye
to temper golde & silver and other mettales and diuerse
kynnes of colours to write or to limme withall vpon
belym, parchment or paper, & howe to lay them vpon
the worke which thou entendest to make, & howe to
bernish yt when thou hast done, with diuerse other
thinges very mete & necessary to be knowne
to all suche Gentlemenne, and other
persones as doe delite in limming,
painting or in tricking of armes
in their right colours, & therfor
a worke very mete to be
adjoined to the booke
of Armes, neuer
put in printe
before this
time.
(:)

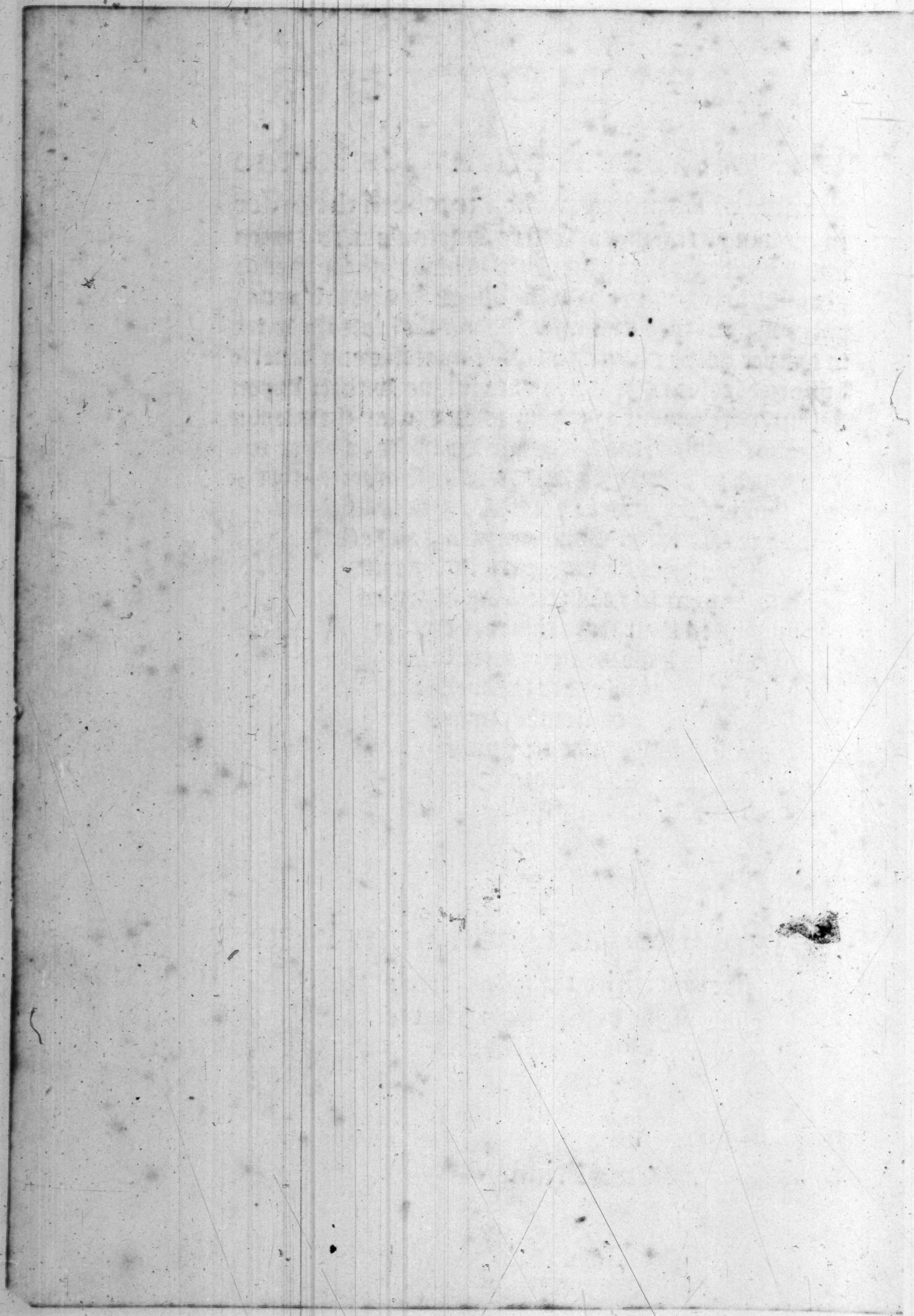
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strete within temple Barre at the

signe of the Hande & Starre
by Richard Tottill.

An. 1573.

Cum Priuilegio.



The arte of limming. Fol.ij.

The order of drawing or tracing.



First thou shalt with a pencell of blacke lead, or with a cole made sharpe at the poynte trace all thy letters, and sett thy vlnetts or floweres, and then thy imagery yf thou wilt make any. And then shalt thou with a small pen drawe all yf thou hast portretted, then make thy use on this wise

¶ To make a double fyse or bottome to laye or settle silver or goulde vppon called an embossed ground.

Take bennys ceruse, white lead, the plasse of an old image or chalke, any of these made in fine powder, and then ground with the glayre of an egge and a litle water on a painters stone maketh a good bottome to laye vnder silver. But when you shall vse any of them to laye vnder gold, doe so yf a litle saffron therewith to make yf some what yellowe. But beware you put not to much water thereto, so then will yf be ouer weake, and yf you doe ouermuch glayze to yf, then will yf be ouer stiffe, therefore minge it after discretion, and looke thy use be thicke standing, and sett the use thus tempered & couered in a horne or a shell in some seller or shadowyd place, or vnder the earthe where it maye stand moyste by the space of vij. daies vntill it be perfecte clammy & rotten, & euerye daye once stirre it about, & you shall wel vnderstand that al the uses the elder they be & the moze clammy, & rotten they be, the better they be, so all the crafte is in well making & tempering of the use, and if there stand any belles vppon the use, put in eare ware, so it ys a remedy therfore, and be soze you laye it on your worke, first lay the use on a scrow

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and dye

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and dye it, and when it is dye, bend it, and if it bend, & brake not, then is it good and perfecte, & if it brake put thereto a litle water to make it weaker, and proue if it cleueth fast to the booke, & if it do not, then put glaire there to, and make it moze stedfast. The like sise maye you make with Gypsum boole Armoniake, red or yellow oker orpiment or masticot with browne of Spaine or with red leade if euerye of them be ground by him selfe & tempered and ordered in maner & forme aboue w^ritten.

¶ To make a thinne sise or bottome to laye or settle siluer or golde vppon called a single grounde.

TAke the newe shreds of glouers leather or of newe parchemēt so that is best, and seeth them in saire water from a quarte to a pinte that the liquo^r be somewhat thicke and clammie betwene your fingers, then straine the liquo^r from the shreds, and put it being hote in some stone vessell and soe worke it furth befoze it be colde, and when you lay on your siluer or golde, see that your syse be nether to moiste nor to dye, but in a meane betwene both soz dreade of appayzing your worke. The like sise maye you make (withouth heating them at the fyre) of glue water made of parchemēt glue so that is best, or with water gummed somewhat thicke with gumme arabecke or of good olde glaire, or with the milke of grene figges alone, or with the milke of spourge, or of wartwede, or with the yellowe milke of grene salendine, or with the iuce of garlike or of onyon heades or with the water and grease of snalles. Vppon euery of these maye you laye your leaues of siluer or golde hauinge regarde that your grounde be nether to moyste nor to dye, when you shall laye or settle the same therevppon.

¶ To laye a dooble syse on letters or vppon other thinges.

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You shall with a pencell made of graye amys or calli-
ber tailed laye on thy syde somewhat substantially or if
thou wilt first thinne and after thicker, and then dye it, &
whē it is dye wet it lightly with thy spittle, & then shane
it with a sharpe knife vntill it be even without hilles, and
yf there fall any default therein, or else there is more in
one place then in another, laye againe thy syde on it, and
dye it & engrosse it as is saide befoze & whē it is engrossed
& made plaine the burnishe it with the toothe of a calfe, or
an ore, or of an horse that is made therfoze standing in a
crooked sticke, and when it is burnished and made even
and shining, then is it readye to laye on it thy golde or
thy siluer.

¶ To laye golde or siluer on syde.

Firste cut the leaues of golde or siluer in peces with a
sharpe knife or a knife made of a great reede bypon a
litle boorde as broad as a trencher covered with a calues
skin rayled or vnderstuffed with wolle or fere or else vnt-
stuffed, then shalt thou with a pencell wette lightly on
thy mouth the wette thy syde, so it be a litle moyste, and then
wet the thy pencell again in thy mouth on the same wise,
and touche thy golde or siluer that thou haste cut by a cor-
ner lightlye, and laye it on thy syde, befoze made a litle
moyste, and then thou shalt take the taile of an hare, or of a
conney or a peece of cotton & lightlye presse it downe on thy
syde, & when thou haste thus done let it dye vntill it be wel
dried, then burnishe it: so if thou shalt burnishe it wet
thou shalt rubbe of all, and when it is well dried, take
the ruske that thou doste burnishe with, and dye it & heat
it well on thy cheke, then burnishe thy golde first softly,
and then harder vntill it shine, but burnishe it not ouer
longe, so drede of apparinge. And when thou haste
well burnished it, then take a white wollen clothe or an
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bare foot, and rub all awaye, save it which cleueth to the life, & if ther be any place saltie, so that the golde faile for dyenes of the syde, then wet it againe and laye on the golde, & dye it and burnish it as you did before.

¶ To make gumme water to temper colours with all.

Take cleane water, & do it in a vessell & put thereto a portion of gūme Arabecke & let it stand until the gūme be well desolved & molten in the water, but looke it be not over thicke of gūme, for then it is euill to worke with, & if it be to thinne of gūme then will the coloure fade & fall of, therefore kepe a meane & temper thy coloures thereto, such as it serueth for best. Note the best gūme is clere and brittle & in stamping it, it becometh ponder casely without cleuing together.

Nota.

¶ To make glaire for the like purpose.

Take the whyle of newe laide egges as many as you thinke good, and straine them throughe a linnen clothe to take out the cocke treadings, the put them in a dish and wringe the through a sponge or a white wolle clothe untill they be as thinne as water, then washe the sponge or clothe & dye it. And put the glaire to thuse aforesaide in a stone pott or a glasse faste stopped, and spend it as soone as you can, for yt will not kepe aboue thre dayes, but it will hane an ill savor excepte they be ordered as foloweth.

¶ To kepe whites of egges as longe as you wil without corrupting or putting of Arsenicke to them.

Take the whites of egges not breaking them in anye wise, but take out the cocke treadings, and put to them as much of the best white vinegar as shall suffice the quantity of

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take of the whites, leuing it so the space of two daies, then passe it throughte some linnen clothe without breaking or beating the white of the egges leauinge it so the space of viij. dayes, then straine it againe and put it in a ball well stopped, to occupie for the purposes aboue written.

¶ To temper golde or siluer wherewith you may write with a pen or painte with a pencell.

Take fine or fire leaues of beaten golde or siluer, and Golde and siluer.
grinde them well & finely on a painters stone with a litle honnye, then put it into a glasse with a quanttie of faire water, & let it stande one night, then draine the water & the honnye afterwarde from the golde, & put to the golde gume watter, & then write with it, and when it is drye burnish it with an ore toothe, also if you grinde your leaues of golde with glaire onelye without honnye putting to it you maye well write therewith in adding to it a litle gume water, & with your gold tempered in maner abouesaide you maye diaper with a small pen or pencell vppon colours. If you will buye at the Potecaries shell golde or shell siluer, with the which (being tempered with gume watter) you maye berge well write with a pen, or painte with a pencell.

Diaper.
Shell golde
and shell siluer.

¶ To temper azure or byze.

Grinde azure or byze on a painters stone with cleane water then put it in a broade glasse or in a broade shell, & when it hath stād a while all the dregges will stete aboue, and all the cleane coloure will fall to the bottome, then poure out the water with the dregges, & put the azure in cleane water againe. Then sturre the coloure & the water together, & let it stand & fine, & after that poure out the water & the dregges againe, and doe thus vntill it be well purged & clarified, for the Potecaries mingle chalke therewith.

Azure or
lighte blewe
for armes.

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With to multiplie it to there profit, but thus you muste do to clarifie it to the first kinde if nede be, the shal you grind it again vppon a painters stone with gummed water, the put it into a horne or a shell, and when you wilt write or painte. Then sturre it with a sticke, & let the sticke dropp into the pen, for vermilion & this colour will fall to the bottome & sincke as leade.

This false colour, Two parts azure and one of cereuse and sadded with the same azure or with blacke sincke, or with Indebaudias.

¶ Howe to make azure and bize sadder
yf they be of a lighte colour.

Take good blew tournesoll & wet it in gumme water and then wring it, and with that water temper the azure or bize, or else yf thou wilt thou maye with a pen tell drawe with thy tournesoll ouer the bize when it is dyed whether it be vinct or imagery.

¶ To temper Indebaudias.

An Indian
blacke.

Grinde Indebaudias on a painters stone, with gumme water, & put it in a shell to worke with all.

This false colour, Two partes Inde, & the thirde yte white leade or cereuse and sadded with the same Inde or with sad ynke Indebaudias of it selfe maketh a darke & sad blacke, but being ground with white leade or cereuse as is afoze saide it maketh a browne blew.

Browne
blewe.

¶ To temper smalte or florrey.

Blewe co-
lour.

Smalte or florrey being tempered in a shell with gumme water maketh a blew, but not so perfecte a colour as azure or bize dothe make. The Poticarics doe put to it ofte times fine sand or chalke to multiplie it to there profit, there

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fit. Therefore in chusing of it, take that which is bright
of colour, and not harſhe, but ſoſte betwene the fingers.

¶ To temper Orpyment or Maſticot
for a yello we.

Grynde Orpyment and Maſticot eche by it ſelfe on a
Painters ſtone with Gumme water, & in gryndinge
adde to the Maſticot a litle Saffron, and the colour wil
be the liuelier: and when they be wel ground, put them
ſeuerally in ſhelles to worke withal.

A gold yel-
lowe for ar-
mes.

Orpyment may be elayed with Chalke, and dimmed,
that is to ſay, ſadder, or darked with Oker de Luke, or
with Browne of Spaine.

¶ To temper Vermelion.

Grynde Vermelion on a Painters ſtone, firſte drye,
& the do therto a litle glayze of egges, & grinde it a
gaine, untill the brightneſſe be ſo donne, with a litle of
the yelke, and let it ſtand a day or moze, untill it be wel
ſyned. And when thou doſt worke therewith, ſtirre it
well together, and if it be thicke as lyme, doe a litle wa-
ter thereto: and if it ſhall haue an ill ſauour, then put
into it thre chynes of Saffron, and it will take awaye
the euil ſente.

A Vermeliõ
redde for
armes.

His falſe colour, two parts Vermelion, and the third
parte Cerius, and mingle them together, if thou wilt,
with the ſame vermilion.

¶ To temper Turneſoll.

Wette Turneſoll once or twice, in good thinne glere
and let it lye therein untill it be well ſteeped. Then
wrynge it into a diſhe, untill the colour be good & ſadde.
With this you may floziſhe redde letters, or beſtures.

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And

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And this colour shalbe enlued (that is to say) darked or sadded with blacke ynke.

His false colour, two partes Turnesoll, & one of Cerius, and it shal be sadded with the same Turnesoll.

¶ To temper good Roset.

Roset color **T**ake the finest & beste coloured Roset, and grinde it with gumme water on a Painters stone, & so worke it forth. This colour may be elayed with chalke or Cerius, and sadded with him selfe.

¶ To temper Brasill wherewith to write, florisse, or rule bookes.

Brasill,

Take Brasil finely scraped, or grossely beatē to poulder, and put thereto the glayze of an egge, or gumme water, and a litle Alam made in poulder, and lett them steepe a night and a day: and then straine out the liquoz, and keepe it to the vse aforesaid.

¶ To temper good Synapour.

Bloudy colour.

GKind Synapour lake, & Synapour topes ech by him selfe on a Painters stone with good glayze. The put them in seueral shelles, & worke them forth: and if they be too light, put to them a litle Turnesoll.

His false colour two partes Synapour, and a thirde of Cerius, and laye it on thy Minettes, and when it is drye, sadde it with good Synapour, and diaper ouer it with white Cerius.

¶ To temper redde Leade.

Redd leade **G**rynde redde Leade well with gumme water, and then put it in a shell: and when pou worke with it, stirre

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stirre it as you doe Vermelion.

Of this you shal make no false coloz, but of him selfe, and sadden it with Synapour, or with good Broome of Spaine, or with light blacke, or with Vermelion.

¶ To temper blacke Leade.

Grinde well blacke Leade with gumme water on a Crane colour. Painters stone, and then put it in a shell to worke withal. This is a perfite Crane colour of it selfe.

¶ To temper Browne of Spaine.

Kind good Broome wth gumme water on a Painters stone, & when it is very wel ground put it into a shell. This false coloz two parts Broome, & the third part of white Leade, & sadden with y^e same sad coloz of broome. Browne colour.

¶ To temper Oker de Luke & Oker de Rouse, which make broome colours.

Oker de Luke, and Oker de Rouse shal firste be severally broken in a brasen morter, & after ground ech by him selfe on a Painters stone with gumme water, & mixed with a litle Chalke, and enwed or sadden with good Oker, or with Broome, either of them maketh a good colour for heare on heades, or on beards. Good colours for heare.

¶ To temper greene Byze.

Take greene Byze that is soft, and not harsh between the fingers, so if it be harsh, it is mixed with sande, whiche the Apothecaries do vse oftentimes to multiply it to their gaine. And temper it in a shell with gumme water, and it wilbe perfite to worke withall. And when you write, stirre this colour as you do Azure, and wash it, and dresse it in forme aforesaide: as you doe your Azure, before you grinde it with gumme water. Greene Byze.

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¶ To temper Vertgrese, called Spanishe greene.

An Eme
raud greene
for armes.

Take Vertgrese well cleansed and piked from dross
and moles, and grynde it on a Paynters stone first
drye, and put thereto a litle of the gall of a Beate, &
of the ioyce of Rue, with a litle Safron, & braye all these
together on the same stone. Then put it in a horne, or
shell until it be dry. And when you wil occupie it, take
part thereof and grinde it againe with vineger or ver-
gis, or with the pisse of a yong childe, euey of them ha-
uinge gumme Arabike dissolued in them.

Light grene

His false colour two partes, good greene, & the third
of Cerius, and sadded with a good greene, and Diaper
ouer it with Vennis Cerius.

¶ To temper Safron.

Saffron.

Steepe Safron in good glayze, and so worke it forth
to a smal pensel. And if thou wilt thou maist enewe it to
good Vermilion, with Safron also you may enewe or
florish ouer letters, or any other thing thou wilt.

¶ To temper Vennis Cerius, and white Leade.

A pure whit
for armes.

Grynde Cerius, or white Leade, eche by him selfe on
a Paynters stone, with cleare water, and therewith
thou shalt diaper and florish above all thy colours with
a penselour made of a small pensell. And this colour is
tempered onely with water, or with water lightly cha-
sticed with gumme, so they stand above al other colozs
that be gummed.

A Sable or
blacke for
armes.

¶ To make a Fume blacke called Sable.

Take a cleane Lattin bason, and holde a burnynge
toche vnder it, until the bottome be blacke: and the
take

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take of that blacke, and temper it with glayze, or with gumme water, and so worke with it.

¶ To make an excellent blacke like Welnet.

Take Hartes horne, and burne it to cole on a Colliers barth, then make fine powder thereof, and grinde it on a Painters stone, with the gal of a Peate. Then put it in a shcl to dye in a shadowy place. And whē you wil occuppe the same, grynde parte thereof againe with the glayze, or with gumme water: and worke it forth. A veluet blacke.

¶ To make a blacke colour, or an ynke of a good perfection, wherewith you may write with a penne or pensel.

Take a pounce and a halfe of rayne water, with three unces of the waightiest galles you can gette. Black ynke. Bruise them in smal pieces, and poure them into the saide water, and so let it stand two daies in the sunne. Then put to it two unces of greene Copozas, or els of Romayne Vitriol, whiche is beste, well coloured and beaten smal: and stirre al these together with a sticke of hard woode, and let it stande againe two daies more in the sunne, puttinge to it one vnce of gumme Arabike, that is clere and bright, and beaten in powder, and one vnce of the peeles of Pomegranades, and then boyle al a litle on a slowe fire. That donne, straine it, and keepe it in a vessel of leade or of glasse, and it will be very blacke and perfitte good ynke. And if you finde it thicke, and that it bee not flowinge penoughe, putt to it a litle cleare lyc, whiche will make it liquide and thinne. And if it be too cleare, adde to it a litle gumme Arabike. And to haue your ynke to continue longe, and not to hoze, put there in bay salte. Note that the galles must be smal curled, Note.

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and massine within, if they be good. The good Vitriall is alwaies within, of a coloz like the element. The best gumme is cleare & brittle, that in stampinge it becometh pulder easily, without cleauing together.

Nota

Thus is taughte the waye howe to temper Goulde, Syluer, and Colours to limme, or to write withall vpon belym, parchemēt, or paper. That is to say, Vermelion, Turnesoll, Synapour, and Saffron, with good glayze. Syse with glayze chasticed with a portion of water, Azure, Wyse, greene Wyse, red Leade, roset Smalt, black Leade, Browne, Oker, Orppment, Pasticot, and Indebaudias with gumme water, Wertgrese with vineger, bergys, or with the pisse of a yonge childe, Cerius and white Leade, with cleare water, or with water lightly gummed, Basill, and some blacke with glayze, or to gumme water, which you thinke best for your purpose.

Nota.

Also there is an other way which is vled amongst the excellent sort of Painters, that is, to grind & temper al colozs for limming (sawing such as be white) first wth the gall of a Speate, & then let the dry, & after whē you wil work them, take part therof, & grind it againe wth glayze, or to gumme water, as the colour requireth, and so worke it forth. It is said, that water killeth & darkeneth the brightnes of most colozs that be tempered therewith. But this gal p^{re}serueth the brightnes, & maketh the more liuelier to beholde: which thing experience wil teach you more perfectly.

Nota.

Note the al colours to limme or to write withal should neuer be tempered with any kind of oyle, for oiles scrue most aptly for to temper colozs to lay vpon stone, timber, yron, lead, coper, & such like. And oyle of Linseed, which is called flaxe seed, & oyle of walnuts are most vled, & be most best of al other oyles for the same purpose.

Also al colozs to limme or write withal whē they be tempered, would be put in shelles, in vessels of stone, lead or of glasse, & kept vnder the ground in some seller, or in some

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some moyst or shadowy place, for drying ouer fast: and y^e elder they be the better they be, if they be kept couered from filth & dust. And note y^e there is great regard to be had to y^e wel grinding & tēpizing of the colours, & to the placing of them vpon the worke.

¶ The maner how to florische or diaper with a pensel ouer siluer or goulde.

I If you wil diaper ouer gold, take yellow Oker, & therewith draw ouer thy gold with a pensel what thou wilt. If thou wilt diaper vpon siluer, take Ceruus wth a pensel and draw or florish what thou wilt ouer thy siluer.

If thou wilt diaper with gould or siluer vpon colozs, take the ioyce of garlike, with a pensel drawe ouer thy colours what thou wilt. Then take and lay the gold vpon it, and presse it downe lightly with an Hares taylor, & let it dry halfe a day or more. Then rubbe of the golde which cleueth not to the garlike.

¶ The waies howe to make sundry kindes of colours by tempering & mingling of colozs together.

I If you will temper Azure with Turnesoll, and grinde them together on a Painter's Stone with gumme water or glayze, you shal make thereof a perfit Purple or a Violet colour. And the like colour you maye make with good redde Rolet, if it be mingled with Azure, & tempered with gumme water in maner aforesaide.

If thou wilt put to a good quantity of Synapour, a litle portion of blacke, & grinde them together wth glayze, you shal make therof a Sanguine, or a Murrey colour.

If you will mingle a bright redde with a bright yelow, and grinde them together with glayze, you shall haue thereof an Orenge tawney.

If you mingle redde Lead and Pasticot together, you shal haue thereof a Lyon tawney.

Purple, or
Violet colour for
armes.

Sanguine,
or Murrey
for armes.

Orenge
tawney for
armes.

Lyon taw-
ney.

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Incarnation
and fleshly
colour.

If you wil make incarnations for bilages, or a fleshy
ly colour for Images, firste lay on the white, and enew
it with bermelion, or els take two partes of Wermelion
and one of Cereuse, and mingle them together, and so
laye it on thy worke, and enewe it if thou wilt, when it
is dry with good Wermelion.

Peach color

Also if you mingle Wermelion with Cereuse, by dis-
cretion you may make thereof a Peache flowre colour.

Sky colour.

Also by mingling Wermelion and Azure together, by
discretion you may make thereof a Skye colour.

Bloude red.

If you will make a bloude redde, take of the best Sy-
napour, and sadde it at the sides with Browne, or Wer-
melion, or with blacke.

Lincolne
greene.

If you mingle good greene and Safron together, by
discretion you shall haue thereof a perfitte Lincolne
greene.

Popiniay
greene.

If you mingle Azure and Masticot together, you shal
haue thereof a perfitte Popiniay greene.

Motley
greene.

If you mingle red with greene, you shal make there-
of a Motley greene.

Blacke ve-
sture.

If you wil make a blacke vesture, take and laye firste
a champe of light blacke mingled with white Leade, &
saddened with good blacke.

Marble or
ashe colour.

If you wil mingle blacke with a portio of white, you
may make thereof a Marble, or an Ashe colour at your
discretion.

Russet or
sadd brown

If you will mingle a litle portio of white with a good
quantitie of redde, you may make thereof a Russet, or a
sadd Browne, at your discretion.

Nota.

Thus by minglinge of colours, you may make them
of sundrie colours, and by prouise you maie come to the
perfitte knowledge, howe to make them on the beste
manner.

Nota

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Note furth ermore that there is a certein colouring which is called Vernix that is more noble and excellent than all other colours. And so much the more excellent in that it is set about all colours. And as the day becometh more light and brighter by the shining of y^e sunne even so all colours that are vernished do shewe furth a better glosse or luster, and become more brighter by the shining of the same. And it is made in maner & in the following.

Nota.

To make a kynde of colouring called Vernix
wherewith you may vernish the golde, silver, or any
other colour or payntings, be it upon be-
lym, paper, tynter, stone, leade,
copper, glasse &c.

Take Bengelwyn & bray it well betwixt two papers.
then put it in a byall & powder upon it good Aqua-
uite that it be about the Bengelwyne three or foure
syngers, and let it steepe so a day or two. Then put to it
for halfe a byoll of such Aquauite, fyne or fyne chynes
of Saffron finely stamped. This done strayne it, &
with a pencil vernish therewith any thing gilted which
will become bright & shyning drying it selfe immediat-
ly, and so wil continue the brightnes many yerres. But
if you will vernish on Silver, then take the almon of
Bengelwyne, that is to saye the white that is founde in
the myddest of Bengelwyne, and dresse it with Aquauite
in the foresaid maner, leaving out the Saffron. And
the saide vernish made with Bengelwyne & Aquauite
only is very good to vernish all thinges aswel payn-
ted as not painted, for it maketh tables & coffers of wal-
nuttree & hebeny to glister if it be laide upon them, and
all other lyke thinges, as woozkes of Iron, copper or
tynne, gilted or not gilted, for it maketh bright, preser-
ueth, aydeth the colour & dryeth incontinent without
taking.

C. l.

The arte of limming.

taking any dust or fylth, you may make it cleane wth a linnen cloth, or with wipping the wo^{rk}e with a ffore taple the which is better.

To make vernix another way for the purposes aforesaide.

Take two vnc^{es} of harde mastike and stamp it, & putt it into a litle newe pot, and so melt it on a soft fire, this done, put to it one vnce of the oyle of a fyrr tree, and so let them boyle a litle euermore stirring them together, but let it boyle almost nothing, for if it boyle too much the vernish wilbe too clammy, and to knowe when it is boyled ynough, put into it a hennes fether, & if it burne by & by, it is a signe that it is pfect. Then take it from the fyre, & put it into a stone pott, & kepe it well from dust: and when you will occupye it, take so much therof as will serue your tourne, & heat it a lytle at the fyre, then spread it vpon your wo^{rk}e wth a pencil as thin as you may, & it shall haue a verie faire glosse or luster, & it will drye incontinent if you shal sett it in the sonne.

To make colours of all kynd of mettalles.

Take a beade of Chystall or a paragon stone, beate eche of them by hym selfe in a brasen mortar to fyne poulder, then grynde them dye eche by hym selfe on a painters stone vntill the poulder be very fyne & small, then grynde them again on the same stone ech by hym selfe wth good glayze and lay some one of them on the wo^{rk}e wth a penne or a pencell, and when it is well dyed, then rub it ouer wth golde, or with anye other metall, and you shall haue the same colour that the metall is of.

To

The arte of limming. Fo.x.

¶ To make letters of the colour of gould
wpythout gould.

TAke one vnce of Orppment and one vnce of tyme
Chystall, and beate eche of them by thair selfe to
poulder in a brasse morter. Then grynde them wel to-
gether wpyth glayze vpon a paynters stone, then it ys
perfect to wyte withall.

¶ To make letters of the colour of siluer
wpythout siluer.

TAke an vnce of tynne, two vnces of quicke siluer,
and melt them togethet, then grynde them well
on a paynters stone wpyth gumme water, and wyte
with it.

¶ To make white letters in a blacke
felde.

TAke the yelke of a newe layde egge and grynde it
vpon a paynters stone with faire water, so as you
may well wyte with it out of a penne, and when you
haue so done, you may with the same liquoz dye or
wyte with a penne great or small letter vpon paper or
parchement, and when they be drye, then may you with
Inke black ouer the letters and paper so muche as you
shall think good. And when the blacke is thzough drye
then maye you with a white wollen clothe or a knyfe
rubbe of all the saide letters wzytten with the yelke of
the egge, and then the letters vnderneath will apere
all white, because they were pzyserued with the saide li-
quoz: So that you shall haue faire white letters in a
blacke felde.

¶ To make staunche graine, or a poulder to
amende the parchement and to
receiue Inke.

C.ij.

Take

The arte of limming.

TAke two partes of rosen & one parte of allome, and beat eche of them by him selfe in a bzasen moztar all to powder, & put the same powders togeather in a fyne linnen clothe & rub your bellym, parchement or paper therewith when you begin to wryte. And when the wryting is drye, you may rub it ouer againe with a whyte wollen cloth, and the letters wilbe neuer the woyle, but moze sayzer & bzighter to see to.

¶ To renewe olde & worne letters.

TAke of y best galles you can get & bruse them grossly then lay them to sleepe one day in good whyte wine. This done distill them with the wyne, and with the distilled water that cometh of them, you shal wet hand- somly the olde letters with a little cotton or a small pē- sel, & they will shewe freshe & newe again in suche wyse as you may easely reade them.

¶ To take greafe out of parchement or paper.

TAke shes burres & burne them to powder and laye the saide powder on bothe sydes the parchemēt or paper betwene two paper boardes & presse them by y space of two dayes or moze, and it will drye & soke out all the greafe.

¶ To make red and greene scaling waxe.

Melt a pound of ware & two vncē of turpentyne together, & when they be well molten, take them from y fyre & put to them an vnce of bermilion while it is luke warme, & stirre it well together in the keling, and then make it vp in rowles, and in like maner shal you make greene ware by putting Wertgrese into it. Note if you will take ii. partes of rosyn & one parte of turpentyne, adding to it Wermilio, as is aforesayd it maketh y better ware.

The arte of limming. Fol xj.

¶ A pretie deuise to take out the true forme & proportion of any letter, knott, flower, Image or other worke. Be it printed, drawen wth a pen or pencell vpon paper or parchment wth out rasing, blotting or hurting the right paterne or picture it selfe.

Take oyle, or other licours that make smoke & burn them in a lampe, then holde ouer the lamp a sheete of cleane paper, & blacke as much of the same lyght as wil reccaue the ful proportion of the worke that you do meane to take out, that done lay the blacked paper vnder the backe syde of the worke, the blacked syde v^{er}warde, laying a thyn white paper betweene the worke & it: and with a small pencell made of harde wood or of bone you shall drawe lightly ouer the letters, knott, or worke which you desire to take out, pressing it softlye. Thus doing ye shal see the very forme & proportion of the same worke remaining on the thin white paper. When with a small pen & ynke, you may trace & drawe ouer the worke remaininge on the white paper, that done, the ynke will sett out the very print & forme of y^e worke (as farre as you touched the same with your pencell) in euery proportion. You may also for the same purpose (if neede bee) blacke ouer your paper with the leye of a handle or of a lynke, or of a new tozche, or such like which is a very redy way and a perfect.

¶ Another pretie deuise to take out the true forme and proportion of any flower Image or such like.

Take a cleane and thin lanterne horne, & lay it vpon the letter, Image or other worke that thou wylt take out, and it will appeare throught the horne, so as thou mayst drawe with a small pen vpon the horne

The arte of limming.

all the proportion of the woork at thine owne pleasure, euen as thou lust. And when thou hast drawne it all out, then let it drye vpon the hoene in the sunne, and when it is through drye, then breathe vpon it twyse or thryse, and then laye it downe vpon thy booke. And then presse it downe (the letters being next the paper) with a linnen clothe, and the same letters or woork shal remaine vpon the paper whiche thou didst drawe vpon the hoene, then drawe it faire againe with blacke Inke. ¶ Here haue I taught you (besydes the temperinge of goulde, of siluer, and of colours) dyuers thinges, verie meete and necessarie to be knowne to paynters & scriueners. And now we will rehearse briefely all that I haue written before touching lymming. First draw thy woork with a pencell of blacke lead, and then with penne and Inke. Then lay thy sylcs for thy gould and siluer. Then ingrosse them wth a sharpe knyfe, then wet them ouer lightly with thy pencell, then bring dry burnish it with a tooth. Then wet thy size again lightly. Then touch thy gould and lay thereon. Then presse it lightly with an Hares taile, then let it drye, then burnish it with a tooth, then rubbe it with a white wollen cloth or an Hares foote vntill all go of, but that which cleueth vnto the size. Then lay thy colours: First thy false colours and after thy sadd, then purple them about the sides with blacke Inke, then mayst thou diaper them ouer with whyte coloure if thou wilt, then bernishe them ouer wth good old glayze, & then hast thou done all that belongeth to lym-

myng. Finished

AN domini

1573.

The

The names of all suche colours & other things, as are mencioned & contayned in this presēt booke of lymning, and are for the moste parte to be solde at the Poticaries.

Gould foyle	Booll Armoniacke	Milke of greene figges.
Syluer foyle.	Gumme Arabeck	Mylke of spurge
Shell goulde	Galles	Milke of warre-weede
Shell siluer.	Greene coporas	Mylk of Salendyne
Azure.	Romayne trytioll	Iuce of gartyke & of Onyon heads.
Byze	Rozen.	Iuce of Rewe
Indebaudias	Alam	Iuce of red nettle.
Smalt florrey.	VVaxe.	Scraped Cheese
Orpymēt	Honnye	VVhyte wyne
Masticot	Turpentyne	VVhite Vneger.
Vermelyon	Quicke siluer	Vergis
Turnesoll.	Tynne.	Chyldes pisse
Rosett	Pomegarnard pillz	Lye
Brassyll	Christall stone	Oyles and liquors that make smoke.
Sinapor lake	Paragon stone	Glouers shredes and shredes of newe parchment
Sinapor topias	Chalke.	VVater & grease of snayles. Glue water.
Red lead.	Allabaster	Aquazite.
Blacke lead.	Playster of an olde image.	Bengewyne.
Browne of Spayne	Vnslickt lyme.	Oyle of lynsee
Okir de luke.	Poulder of white bones.	Oyle of walnuttes
Greene byze.	Poulder of shepes burres.	Bay salte
Vertgrese.	Netes gall.	
Saffron	VVhytes of egges	
Vennys Cerius	yelkes of egges.	
VVhite leade	Comes mylke	
Fume blacke	Ewes milke.	
Blacke ynke.		
Hartes borne. Gipsum.		

A table

A table of suche thinges as be contayned in this present booke.

T he order of draught	whyle leade.	cod
of tracing.	folio 2	To make a fume blake called a
To make a grunde	Sable.	cod
of a sylve to lay golde	To make an excellent black like	
of siluer vpon	veluet.	7
To make sylves other maner of	To make a blacke colour of an	
waves	pricke of a good per'ecio wher	
To lay sylve on letters of vpon	with you maye write wyth a	
other thinges	pen or pencell.	cod
To lay gold of siluer on sylve	The maner how to diaper of flo	
To make game water to temper	rishe with a pencil ouer gold,	
colours with all	siluer of colours	8
To make glayr for the like pur-	The waies how to make sedyp	
pose	kyndes of colours by tempering	
To kepe whites of egges as long	a mengunge of coloures toge-	
as you wil without corrupting	ther.	cod
or puttinge of arsenicke vnto	To make a kynd of colouringe	
them	called pennec.	9
To temper gold of siluer wher-	To make colours of all kyndes	
with you maye write with a pen	of mettals	cod
or paint with a pencell	To make letters of the colour	
To temper Azure of byze	of golde without gold.	10
Howe to make Azure and byze	To make letters of the colour	
redder & gladder if they bee of	of siluer without siluer	cod
light colour.	To make whit letters in a black	
To temper Indebardias	felde.	cod
To temper Inialie	To make staunche graine of a	
To temper oppment of maslich	pouder to amende the parche-	
for a pillow	ment, & so receiue like.	cod
To temper Vermilion	To reuele elde and a ozne let-	
To temper turk soil	ters	cod
To temper good Reser	To take grease out of parchem	
To temper draspill wherwith to	a paper.	cod
write, & of tute beghs.	To make red of greene scalinge	
To temper good Sinapoz	waxe.	cod
To temper red lead.	A pricke deuise to take out the	
To temper black lead	true forme & prortien of any	
To temper broken of Spayn	letter, knotte, flower, & image,	
To temper Okryde Luke.	or other woork, bee it printed,	
To temper grene byze.	drafte with a pen or pencell vpon	
To temper vert grese called Spa-	paper or parchement without ra-	
nthe greene	syng, blottinge or hurting the	
To temper Saffron.	right paterne or picture it self.	
To temper Venyce Cerus &	fo.	11

FINIS.

